Inventor: OKOCHI et al.
Docket No.: 10873.1604USWO
Title: NOVEL NOTCH-ORIGIN POLYPEPTIDES AND BIOMARKERS AND REAGENTS
USING THE SAME
Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
Sheet 1 of 11

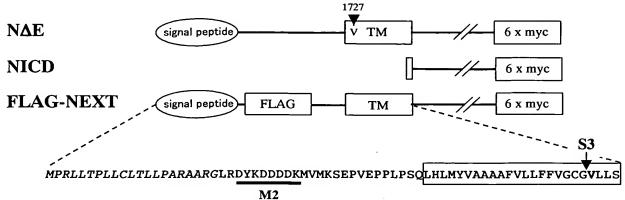
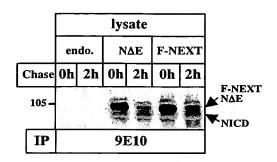


FIG.1A





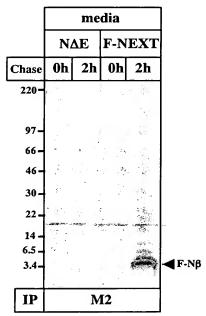
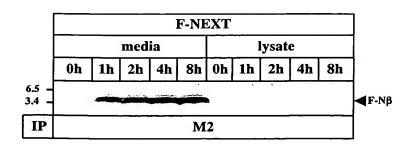
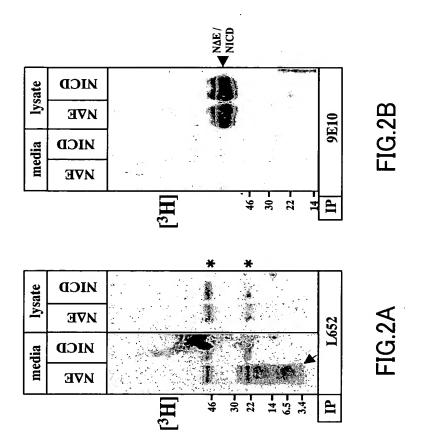
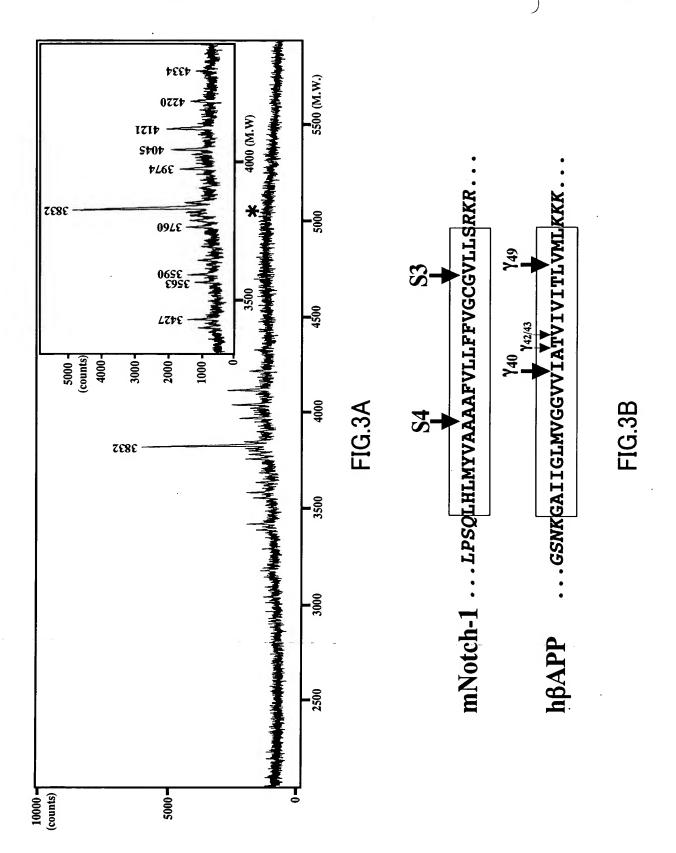


FIG.1C





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(M.W.5057.67)	(M.W. 4333.81) (M.W. 4220.66) (M.W. 4121.53) (M.W. 3974.36) (M.W. 3974.36) (M.W. 3832.22) (M.W. 3562.89) (M.W. 3561.15) (M.W. 3590.95) (M.W. 3427.78)
LHLMYVAAAAFVLLFFVGCG <sup>1743</sup> -c	LHLMYVAAAAFVL <sup>1736</sup> -c LHLMYVAAAAFV <sup>1735</sup> -c LHLMYVAAAAF <sup>1734</sup> -c LHLMYVAAAA <sup>1733</sup> -c LHLMYVAAA <sup>1731</sup> -c LHLMYVAA <sup>1731</sup> -c LHLMYVA <sup>1730</sup> -c LHLMYVA <sup>1730</sup> -c LHLMY <sup>1728</sup> -c
N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAAAAFVLLFFVGCG <sup>1743</sup> -c	N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAAAAFVL <sup>1736</sup> -c N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAAAAFVL <sup>1735</sup> -c N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAAAAF <sup>1733</sup> -c N-RGLRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAAAA <sup>1733</sup> -c N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAAA <sup>1731</sup> -c N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAA <sup>1731</sup> -c N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAA <sup>1731</sup> -c N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAA <sup>1730</sup> -c N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMYVAA <sup>1730</sup> -c LHLMYVAA <sup>1730</sup> -c N-LRDYKDDDDKMVMKSEPVEPPLPSQ LHLMY <sup>1728</sup> -c

TM

	IM
mNotch-1 hNotch-1	LHLMYVAA AAFVLLFFVGCG- VLL
mNotch-2 hNotch-2	LLYLLA-VAVVIILFFILLG-VIMA
mNotch-3 hNotch-3	LLPLLV-AGAVFLLIIFILG-VMVA
mNotch-4 hNotch-4	ILCSPV-VG-VLLLALGALL-VLQLI VLCSPV-AG-VILLALGALL-VLQLI

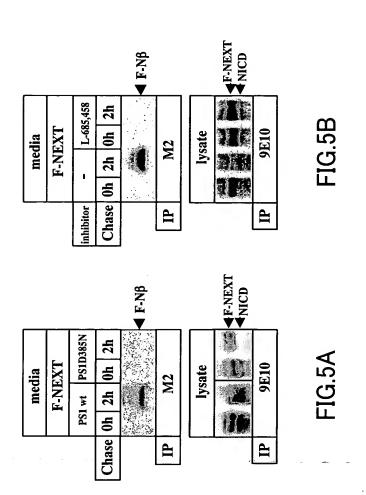
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USING THE SAME Attorney Name: Douglas P. Mueller

Phone No.: 612.371.5237

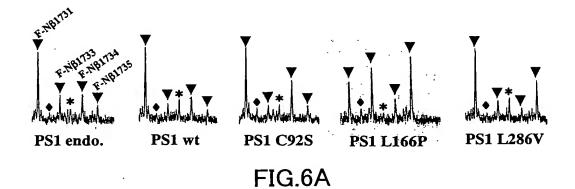
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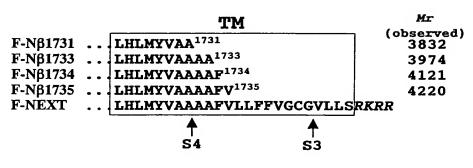


FIG.6B

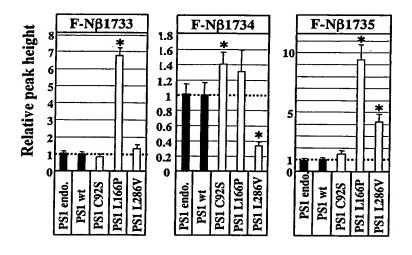
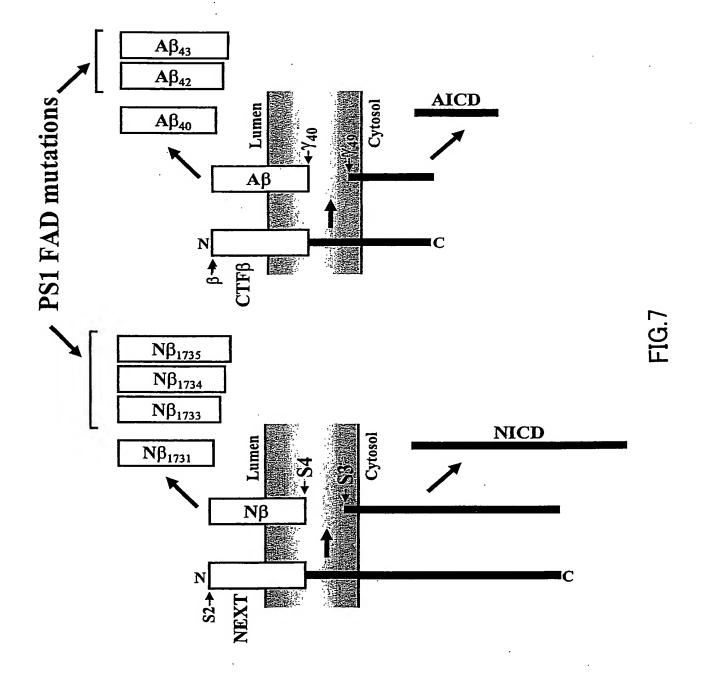


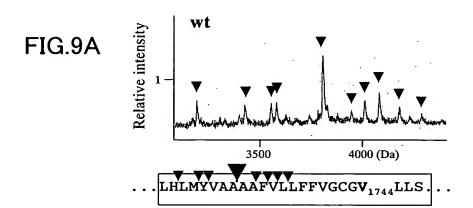
FIG.6C

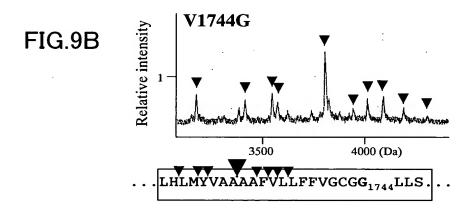


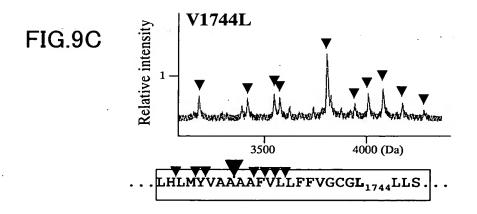
10/521691 Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237 Sheet 8 of 11 Notch-1 βΑΡΡ FIG.8A NH2 ■ NH2  $S2/\alpha$ lumen S4/y40 cytosol СООН COOH 6 x myc signal peptide **FLAG** TMFIG.8B **S4** LHLMYVAA<sup>▼</sup>AAFVLLFFVGCG<sup>▼</sup>Ÿ<sub>1744</sub>LLS G,L lysate FIG.8C 1.2 V1744 V G L 2h 0h 2h Chase 0h 0h 2h Relative [35S] incorporation F-NEXT/PS1 wt 105 F-NEXT 0.8 NICD 0.6 F-NEXT/PS1 D385N 105 0.4 F-NEXT **NICD** 0.2 0 S3 **S**4 S<sub>4</sub> **S3** S media V1744 FIG.8D V1744 G PS1 wt FIG.8E 6.5 **F-Nβ** 3.4

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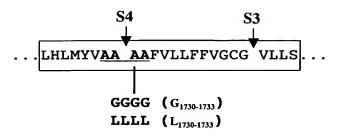


FIG.10A

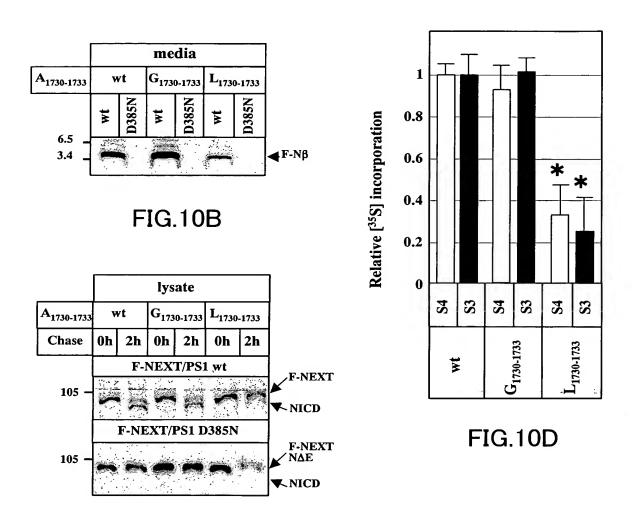


FIG.10C

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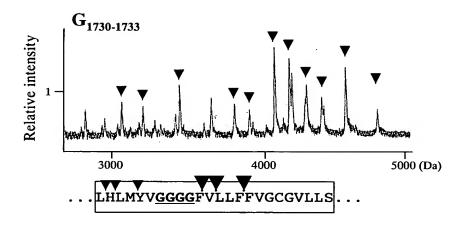


FIG.11A

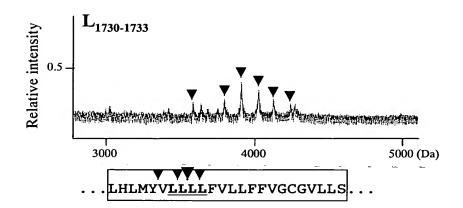


FIG.11B